

CTIHLP2909F Series

From 0.22 μ H to 15 μ H



CHARACTERISTICS

- Description:** SMD (shielded) power inductor.
- Applications:** PDA, Notebook, Desktop, Server applications, Low profile, high current power supplies, battery powered devices, DC/DC converter for Field Programmable Gate Array (FPGA).
- Operating Temperature:** -55°C to +125°C (including self - temperature rise)
- Inductance Tolerance:** $\pm 20\%$
- Testing:** Inductance is tested on an HP4285A at 100KHz, 0.5V
- Packaging:** Tape & Reel.
- Marking:** Parts are marked with inductance code.
- Miscellaneous:** **RoHS Compliant.**
- Additional Information:** Additional electrical & physical information available upon request.
- Samples available. See website for ordering information.**

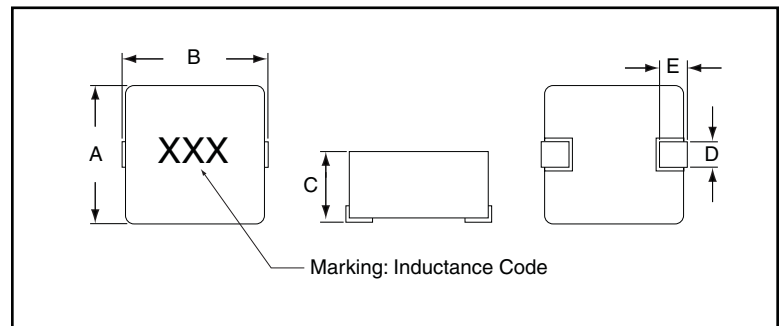
SPECIFICATIONS

*I_{rms}: DC current (A) that will cause an approximate ΔT of 40°C.
 **I_{sat}: DC current (A) that will cause L0 to drop approximately 30%.

| Part Number | Inductance (μ H) | L Test Freq. (KHz) | DCR Max. (m Ω) | *I _{rms} Typ. (A) | **I _{sat} Typ. (A) |
|------------------|-----------------------|--------------------|------------------------|----------------------------|-----------------------------|
| CTIHLP2909F-R22M | 0.22 | 100 | 3.2 | 21 | 34 |
| CTIHLP2909F-R33M | 0.33 | 100 | 4.1 | 18 | 24.5 |
| CTIHLP2909F-R47M | 0.47 | 100 | 5.1 | 15 | 22 |
| CTIHLP2909F-1R0M | 1.0 | 100 | 13.5 | 9 | 16 |
| CTIHLP2909F-1R5M | 1.5 | 100 | 20 | 9 | 15 |
| CTIHLP2909F-2R2M | 2.2 | 100 | 28 | 7 | 14 |
| CTIHLP2909F-4R7M | 4.7 | 100 | 50 | 5 | 10 |
| CTIHLP2909F-100M | 10 | 100 | 101 | 3.1 | 4.0 |
| CTIHLP2909F-150M | 15 | 100 | 160 | 2.5 | 3.3 |

PHYSICAL DIMENSIONS

| Size | A | B | C | D | E |
|--------|------------------|------|------|------|------------------|
| | | Max. | Max. | | |
| mm | 6.6 \pm 0.2 | 7.3 | 2.4 | 2.9 | 1.6 \pm 0.5 |
| inches | 0.26 \pm 0.008 | 0.29 | 0.09 | 0.11 | 0.06 \pm 0.020 |



PAD LAYOUT

